NORTH CENTRAL FOREST EXPERIMENT STATION

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PULPWOOD PRODUCTION IN THE LAKE STATES

BY COUNTY, 1977

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ABSTRACT.--This 32nd annual report shows 1977 pulpwood production by county and species group in Michigan, Minnesota, and Wisconsin. Production in these three Lake States inched ahead to 4.74 million cords from 4.69 million cords in 1976.

OXFORD: 861.0(77):792. KEY WORDS: Residue, Minnesota, Wisconsin, Michigan.

Lake States pulpwood production advanced slightly to 4.74 million cords in 1977 from 4.69 million cords in 1976. Production rose 3 percent in Michigan to 1.59 million cords and 2 percent in Minnesota to 1.33 million cords. Wisconsin output dropped 1 percent to 1.82 million cords.

For every 89 cords cut from roundwood (including chips) 11 cords were derived from mill residue such as slabs, edgings, veneer cores, and chips from those materials. Output from softwood and hardwood residue by State was:

State	*Softwood*	*Hardwood*
	Hundred standard cords	
Michigan	208	1,708
Minnesota	353	779
Wisconsin	480	1,486

Production changes were small to moderate for all species. Major increases were for aspen (68,000 cords), soft maple (33,000 cords), and balsam fir (29,000 cords). Lake States hardwood residue procured for pulping rose 38,000 cords. Largest declines in the pulpwood harvest were for elm (55,000 cords) and birch (33,000 cords).

Harvesting increased mainly in Michigan's western Upper Peninsula and southern Lower Peninsula and north-central Minnesota while the major decline was in central Wisconsin.

Top-producing counties were Iron, Delta, and Marquette in Michigan; St. Louis, Koochiching, and Itasca in Minnesota; and Marinette, Oneida, and Forest in Wisconsin.

Pulpmills using Lake States timber in 1977 reported their pulpwood receipts by species groups and State and county of origin. Their cooperation is gratefully acknowledged. Thanks are also due the Michigan Department of Natural Resources for collecting the data from pulpmills in Michigan.

Table 1.--*Lake States pulpwood production from roundwood by county and species, 1977*

(Hundred standard cords, roughwood basis)

MICHIGAN

UNIT AND COUNTY 1/	ALL SPECIES	PINE	SPRUCE	BALSAM FIR	HEMLOCK	TAMARACK	CEDAR	ASPEN	BIRCH	OAK	MAPLE	OTHER HDWDS.
E. UPPER PENINSULA												
ALGER	483	156	14	30	76	1	5	66	36	1	65	33
CHIPPEWA	344	155	56	42	22	1	2	35	9	X	16	6
DELTA	1021	117	58	152	63	3	10	354	71	2	106	85
LUCE	394	184	26	42	60	1	2	22	13	1	26	17
MACKINAC	225	40	10	55	17	X	8	42	15	0	9	29
MENOMINEE	936	19	68	105	28	8	4	428	49	1	85	141
SCHOOLCRAFT	492	140	42	53	44	1	5	113	28	1	27	38
TOTAL	3895	811	274	479	310	15	36	1060	221	6	334	349
W. UPPER PENINSULA												
BARAGA	632	69	22	64	67	2	9	225	40	1	104	29
DICKINSON	730	11	20	51	13	4	1	490	40	1	57	42
GOGEBIC	404	27	5	44	61	1	3	177	21	X	45	20
HOUGHTON	175	23	5	17	22	X	1	43	17	X	32	15
IRON	1167	88	80	147	54	4	7	484	70	1	157	75
KEWEENAW	9	1	1	X	2	X	X	X	X	0	4	1
MARQUETTE	971	258	66	113	51	2	9	228	82	4	97	61
ONTONAGON	493	14	3	15	40	X	1	307	21	0	69	23
TOTAL	4581	491	202	451	310	13	31	1954	291	7	565	266
N. LOWER PENINSULA												
ALCONA	424	3	0	0	0	0	0	259	16	111	27	8
ALPENA	160	6	X	2	0	0	0	92	11	8	32	9
ANTRIM	7	0	0	0	0	0	0	6	0	0	1	X
ARENAC	6	0	0	0	0	0	0	4	1	0	1	X
BENZIE	106	3	0	0	0	0	0	58	4	8	27	6
CHARLEVOIX	7	7	0	0	0	0	0	0	0	0	0	0
CHEBOYGAN	185	40	X	1	0	0	0	84	5	2	41	12
CLARE	322	32	0	0	0	0	0	152	4	86	38	10
CRAWFORD	105	38	0	0	0	0	0	12	1	40	11	3
EMMET	14	8	0	0	0	0	0	4	1	0	1	0
GLADWIN	90	2	0	0	0	0	0	62	7	11	7	1
GRAND TRAVERSE	75	20	0	0	0	0	0	40	1	2	9	3
IOSCO	143	122	0	0	0	0	0	8	X	5	7	1
ISABELLA	57	X	0	0	0	0	0	37	X	16	3	1
KALKASKA	197	51	0	X	X	0	0	95	2	23	21	5
LAKE	475	51	0	0	0	0	0	184	1	149	76	14
LEELANAU	22	0	0	0	0	0	0	8	1	4	3	6
MANISTEE	172	18	0	0	0	0	0	60	3	34	47	10
MASON	158	X	0	0	0	0	0	74	4	44	33	3
MECOSTA	167	27	0	0	0	0	0	108	1	25	4	2
MIDLAND	54	0	0	0	0	0	0	35	2	4	11	2
MISSAUKEE	83	19	0	0	0	0	0	31	2	18	11	2
MONTMORENCY	314	87	1	3	0	0	0	148	7	51	13	4
NEWAYGO	207	61	0	0	0	0	0	79	1	56	8	2
OCEANA	141	32	0	0	0	0	0	51	1	32	12	13
OGEMAW	138	57	0	0	0	0	0	32	2	37	7	3
OSCEOLA	205	22	0	0	0	0	0	142	3	27	9	2
OSCODA	238	91	X	1	0	0	0	94	6	29	13	4
OTSEGO	72	63	X	1	0	0	0	7	0	1	0	0
PRESQUE ISLE	213	41	1	7	1	0	0	114	19	14	13	3
ROSCOMMON	235	92	0	0	0	0	0	81	2	48	12	X
WEXFORD	364	199	0	0	0	0	0	54	2	55	49	5
TOTAL	5156	1192	2	15	1	0	0	2215	110	940	547	134
S. LOWER PENINSULA												
ALLEGAN	33	23	0	0	0	0	0	4	X	5	1	X
BARRY	2	2	0	0	0	0	0	X	0	0	0	0
CALHOUN	1	1	0	0	0	0	0	0	0	0	0	0
GRATIOT	17	0	0	0	0	0	0	6	0	5	4	2
KENT	87	4	0	0	0	0	0	9	X	43	19	12
MONTCALM	131	12	0	0	0	0	0	36	X	57	18	8
MUSKEGON	78	38	0	0	0	0	0	31	X	8	1	X
OTTAWA	39	39	0	0	0	0	0	X	0	0	0	0
SAGINAW	4	1	0	0	0	0	0	2	X	1	X	X
WASHTENAW	1	1	0	0	0	0	0	0	0	0	0	0
TOTAL	393	121	0	0	0	0	0	88	X	119	43	22
STATE TOTAL	14025	2615	478	945	621	28	67	5317	622	1072	1489	771

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1/ INCLUDES ONLY THOSE COUNTIES THAT SUPPLIED PULPWOOD IN 1977.
X=LESS THAN 50 CORDS.

MINNESOTA

UNIT AND COUNTY 1/	ALL SPECIES	PINE	SPRUCE	BALSAM FIR	HEM-LOCK	TAM-ARACK	CEDAR	ASPEN	BIRCH	OAK	MAPLE	OTHER HDWDS.
NORTHERN ASPEN-BIRCH												
CARLTON	316	50	11	21	0	3	0	200	31	0	x	0
COOK	370	34	97	38	0	0	0	201	0	0	0	0
KOOCHICHING	2430	161	516	220	0	199	0	1247	19	0	1	67
LAKE	757	215	194	91	0	2	0	233	22	0	0	0
ST.LOUIS	3060	512	279	225	0	38	0	1869	81	0	2	54
TOTAL	6933	972	1097	595	0	242	0	3750	153	0	3	121
NORTHERN PINE												
AITKIN	324	5	12	10	0	26	0	241	14	10	1	5
BECKER	15	10	0	0	0	x	0	5	0	0	0	0
BELTRAMI	750	104	85	119	0	18	0	380	42	0	2	x
CASS	727	156	12	18	0	11	0	504	26	0	x	0
CLEARWATER	213	26	12	13	0	21	0	134	6	0	1	0
CROW WING	167	66	0	1	0	0	0	94	6	0	0	0
HUBBARD	381	101	5	7	0	11	0	247	10	0	0	0
ITASCA	1658	75	142	226	0	29	0	1147	12	0	2	25
LAKE OF THE WOODS	297	49	127	3	0	24	0	92	0	0	0	2
MAHNOMEN	18	12	0	0	0	1	0	5	0	0	0	0
ROSEAU	182	75	39	x	0	11	0	47	10	0	0	0
WADENA	68	47	0	0	0	0	0	20	1	0	0	0
TOTAL	4800	726	434	397	0	152	0	2916	127	10	6	32
CENTRAL HARDWOOD												
BENTON	41	0	0	0	0	0	0	21	4	10	1	5
CHISAGO	1	0	0	0	0	0	0	1	0	0	0	0
HENNEPIN	9	0	0	0	0	0	0	0	0	0	0	9
KANABEC	48	0	0	0	0	0	0	28	4	10	1	5
MILLE LACS	74	0	0	0	0	3	0	51	4	10	1	5
MORRISON	111	10	x	0	0	0	0	81	4	10	1	5
OTTER TAIL	5	5	0	0	0	x	0	0	0	0	0	0
PINE	140	14	0	0	0	0	0	121	5	0	0	0
RAMSEY	9	0	0	0	0	0	0	0	0	0	0	9
TODD	6	6	0	0	0	0	0	0	0	0	0	0
TOTAL	444	35	x	0	0	3	0	303	21	40	4	38
PRAIRIE												
POLK	24	0	0	0	0	24	0	0	0	0	0	0
TOTAL	24	0	0	0	0	24	0	0	0	0	0	0
STATE TOTAL	12201	1733	1531	992	0	421	0	6969	301	50	13	191

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X=LESS THAN 50 CORDS.

WISCONSIN

UNIT AND COUNTY 1/	ALL SPECIES	PINE	SPRUCE	BALSAM FIR	HEMLOCK	TAMARACK	CEDAR	ASPEN	BIRCH	OAK	MAPLE	OTHER HDWDS.
NORTHEASTERN												
FLORENCE	780	23	10	40	17	1	X	381	18	4	119	167
FOREST	982	64	32	124	51	3	1	432	42	X	110	123
LANGLADE	507	8	2	21	11	4	0	114	29	5	142	171
LINCOLN	798	56	15	75	31	5	2	357	37	11	84	125
MARINETTE	1190	145	13	79	15	X	1	755	115	0	28	39
OCONTO	438	106	3	21	4	X	0	270	22	0	7	5
ONEIDA	1157	166	51	128	8	3	X	482	174	26	74	45
SHAWANO 2/	495	14	0	9	151	X	0	196	9	X	38	78
VILAS	814	104	28	70	32	2	3	360	91	6	70	48
TOTAL	7161	686	154	567	320	18	7	3347	537	52	672	801
NORTHWESTERN												
ASHLAND	723	66	13	63	21	2	3	401	28	1	68	57
BARRON	12	7	0	0	0	0	0	0	5	0	0	0
BAYFIELD	896	107	1	13	1	X	X	611	136	6	12	9
BURNETT	214	208	0	1	0	0	0	2	1	0	1	1
DOUGLAS	570	322	X	2	0	2	0	217	23	0	2	2
IRON	620	16	3	8	8	1	X	500	24	2	24	34
POLK	14	14	0	0	0	0	0	0	0	0	0	0
PRICE	867	48	8	37	19	5	1	361	80	9	79	220
RUSK	244	1	X	3	3	X	0	84	29	6	52	66
SAWYER	772	64	5	8	23	X	X	406	62	9	90	105
TAYLOR	480	10	2	16	10	4	1	212	46	4	62	113
WASHBURN	668	165	1	1	0	1	0	488	7	0	3	2
TOTAL	6080	1028	33	152	85	15	5	3282	441	37	393	609
CENTRAL												
ADAMS	347	268	0	0	0	0	0	1	X	78	X	X
CHIPPEWA	165	7	X	1	4	3	X	86	19	3	18	24
CLARK	191	37	0	X	1	X	0	20	4	112	9	8
EAU CLAIRE	57	52	0	0	0	0	0	3	X	1	1	X
JACKSON	184	166	0	0	0	X	0	1	1	11	3	2
JUNEAU	274	208	0	0	0	X	0	5	3	50	5	3
MARATHON	775	20	X	15	23	1	0	75	8	22	251	360
MARQUETTE	67	30	0	0	0	1	0	0	1	0	15	20
MONROE	57	48	0	0	0	0	0	X	2	0	5	2
PORTAGE	153	65	0	X	2	X	0	33	X	48	4	1
WAUPACA	122	27	0	X	1	X	0	67	4	0	10	13
WAUSHARA	93	79	0	0	0	1	0	2	1	7	2	1
WOOD	265	122	X	0	0	0	0	24	3	104	7	5
TOTAL	2750	1129	X	16	31	6	X	317	46	436	330	439
SOUTHWESTERN												
BUFFALO	1	1	0	0	0	0	0	0	0	0	0	0
CRAWFORD	X	0	0	0	0	0	0	X	0	0	0	0
DUNN	21	21	0	0	0	0	0	0	0	0	0	0
GRANT	50	X	0	0	0	0	0	7	2	23	5	13
IOWA	1	1	0	0	0	0	0	0	0	0	0	0
LACROSSE	9	9	0	0	0	0	0	0	0	0	0	0
PEPIN	1	1	0	0	0	0	0	0	0	0	0	0
RICHLAND	1	1	0	0	0	0	0	0	0	0	0	0
SAUK	32	32	0	0	0	0	0	0	X	0	X	X
TREMPEALEAU	15	15	0	0	0	0	0	0	0	0	0	0
TOTAL	131	81	0	0	0	0	0	7	2	23	5	13
SOUTHEASTERN												
BROWN	1	1	0	0	0	0	0	0	0	0	0	0
COLUMBIA	20	13	0	0	0	0	0	0	X	0	2	5
DANE	1	1	0	0	0	0	0	0	0	0	0	0
GREEN	4	4	0	0	0	0	0	0	0	0	0	0
GREEN LAKE	X	X	0	0	0	0	0	0	0	0	0	0
MANITOWOC	X	0	0	0	0	0	0	X	0	0	0	0
OUTAGAMIE	22	1	0	0	0	0	0	7	4	0	7	3
ROCK	X	X	0	0	0	0	0	0	0	0	0	0
WAUKESHA	23	23	0	0	0	0	0	0	0	0	0	0
TOTAL	71	43	0	0	0	0	0	7	4	0	9	8
STATE TOTAL	16193	2967	187	735	436	39	12	6960	1030	548	1409	1870

1/ INCLUDES ONLY THOSE COUNTIES THAT SUPPLIED PULPWOOD IN 1977.
2/ INCLUDES MENOMINEE COUNTY.
X=LESS THAN 50 CORDS.